ICOM INSTRUCTIONS

144 MHz SSB BAND UNIT

UX-S92A
UX-S92E

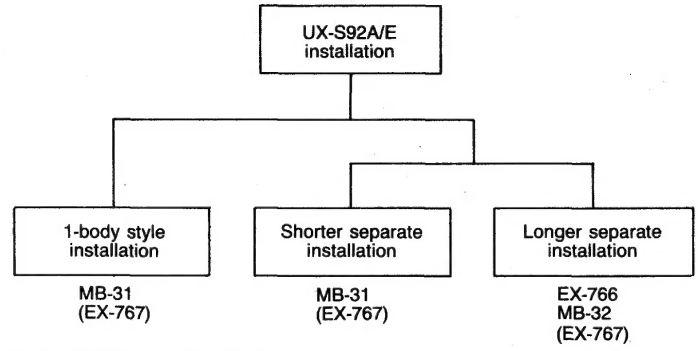
Thank you for purchasing the **UX-S92A/E** 144 MHz SSB UNIT. The unit is designed for the IC-901A/E. By connecting the unit to the IC-901A/E, the transceiver is upgraded and functions in SSB and CW as well as FM modes.

Please read the transceiver's instruction manual for operation information.

FOREWORD

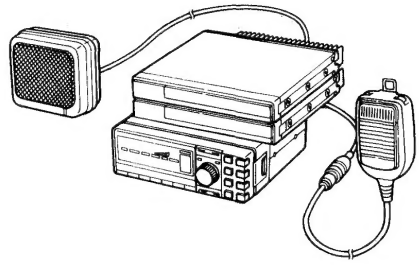
There are two ways to install the UX-S92A/E to the IC-901A/E; one is for standard one-body style installation; the other is for separate style installation. Select the installation to suit your needs.

Before installing the unit, some preparations are necessary for either type of installation. See the pre-work instructions on the next page.



■ SYSTEM UPGRADING SIMULATIONS

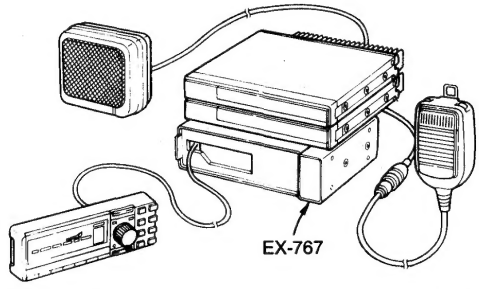
• 1-BODY STYLE INSTALLATION



The UX-S92A/E is mounted on the IC-901A/E. When mounting the UX-S92A/E on the transceiver, the optional MB-31 is necessary.

When mounting more than two band units on the transceiver, the optional EX-767 is necessary.

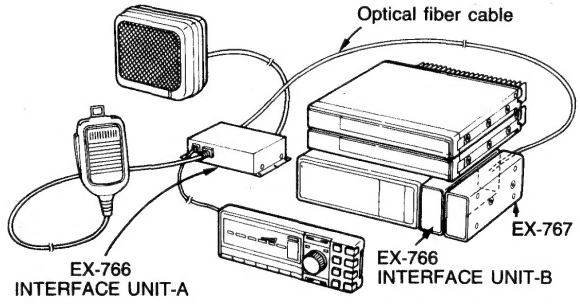
• SHORTER SEPARATION INSTALLATION



The UX-S92A/E is mounted on the main body of the IC-901A/E and the front panel of the transceiver is detached using the supplied remote control cable. When mounting the UX-S92/E on the transceiver, the optional MB-31 is necessary.

When mounting more than two band units on the transceiver, the optional EX-767 is necessary.

• LONGER SEPARATION INSTALLATION



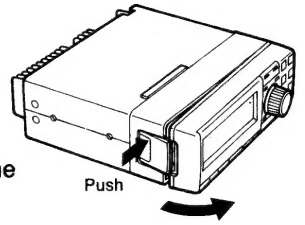
The UX-S92A/E is mounted on the main body of the IC-901A/E. The front panel of the transceiver is detached using the supplied remote control cable and an optional optical fiber cable up to 5 meters long.

The optional EX-766 and MB-32 are necessary for installing the system in the trunk. When more than two band units are installed, the optional EX-767 is also necessary.

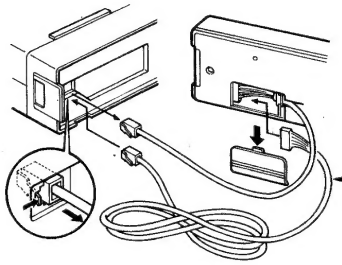
PREPARATIONS

■ INSTALLATION PRE-WORK

1) Detach the front panel.



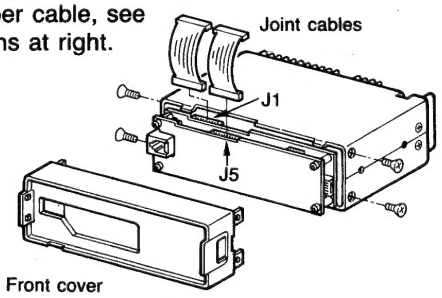
2) Disconnect the cable from the main body.



Replace the cable with the supplied remote control cable when installing the system for separate installation. See the IC-901A/E instruction manual for cable connections when installing the system using the optical fiber cable.

3) Unscrew 4 screws and remove the front cover. Then, connect 2 joint cables to J1 and J5.

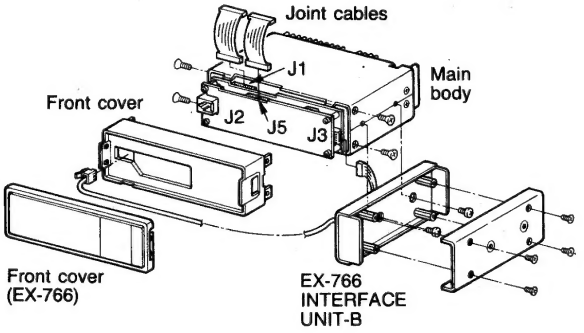
4) Replace the front cover with screws.
   - When installing the system using the optical fiber cable, see the instructions at right.



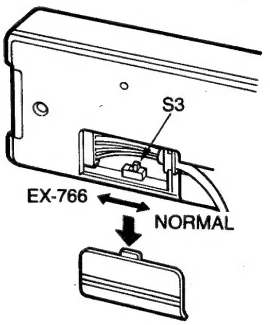
■ SEPARATE INSTALLATION USING THE OPTICAL FIBER CABLE

1) After re-assembling in item 3 above, connect plugs from the EX-766 to J2 and J3 on the main body.

2) Re-assemble each component.



3) Set S3 in the "EX-766" position.



UNIT INSTALLATIONS

NOTE: When connecting the UX-S92A/E and a band unit, the UX-S92A/E MUST be stacked just above the transceiver main body.

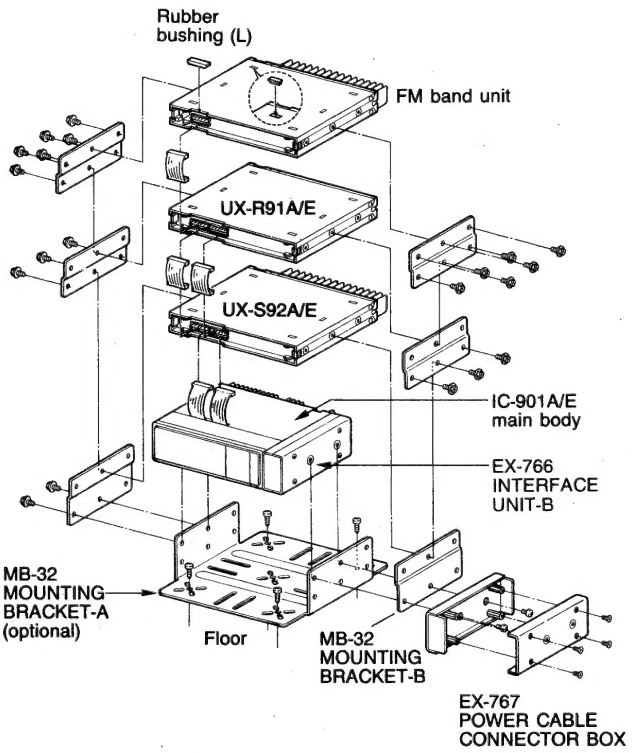
1) The UX-S92A/E **MUST** be mounted on the transceiver main body using optional brackets. See the IC-901A/E instruction manual for detailed installation information.

2) When installing an additional band unit, stack the unit on the UX-S92A/E.

3) For installing additional optional units such as the EX-766 together with the UX-S92A/E, see the diagram at right.

4) Cover holes (6 holes) on the top cover of the unit located on top with rubber bushings (L) and (S) to protect the unit from dust.

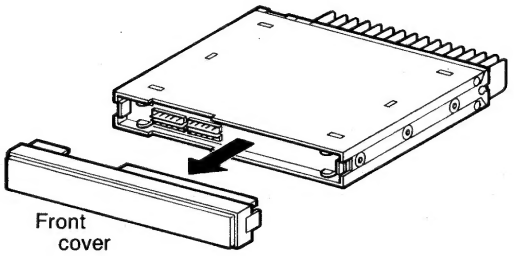
5) See the IC-901A/E instruction manual for mounting the system in a way other than that at right.



UNIT CONNECTIONS

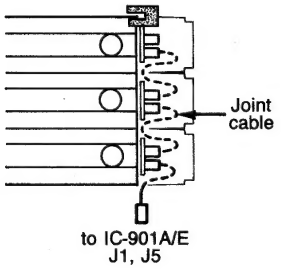
■ FRONT PANEL CONNECTIONS

1) Pull the front cover of the UX-S92A/E forward and remove it.



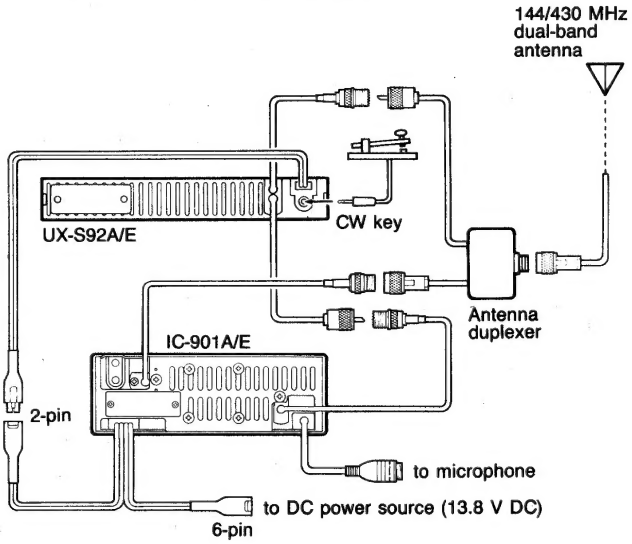
2) Connect two joint cables between the main unit and the UX-S92A/E. Each band unit must be connected through joint cables.

3) When installing an additional band unit, connect joint cables between the units.

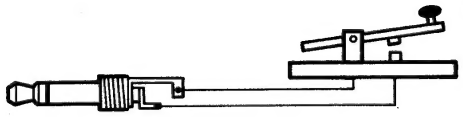


4) Replace the front cover to the unit.

■ REAR PANEL CONNECTIONS



■ CW KEY CONNECTIONS



SPECIFICATIONS

■ GENERAL

- Frequency coverage :

MODEL	VERSION	RECEIVE	TRANSMIT
UX-S92A	U.S.A.	144.000 ~ 148.000	144.000 ~ 148.000
	Australia		
UX-S92E	Europe	144.000 ~ 146.000	144.000 ~ 146.000

Unit : MHz

- Mode : A1 (CW)
  A3J (LSB/USB)
- Antenna impedance : 50 Ω (unbalanced)
- Usable temperature range : −10°C ~ +60°C
  (+14°F ~ +140°F)
- Frequency stability : ±10 ppm
- Power supply requirement : 13.8 V DC ± 15%
- Dimensions : 117(W) x 25(H) 191(D) mm
  7.0(W) x 1.0(H) x 7.5(D) in
- Weight : 1.2 kg (2.6 lb)

■ RECEIVER

- Receive system : Single-conversion superheterodyne
- Receive sensitivity : Less than 0.11 μV for 10 dB S/N
- Selectivity : More than 2.2 kHz/−6dB
  Less than 4.4 kHz/−60 dB
- Intermediate frequency : 10.75 MHz
- Spurious and image rejection : More than 60 dB
- Current drain : 500 mA

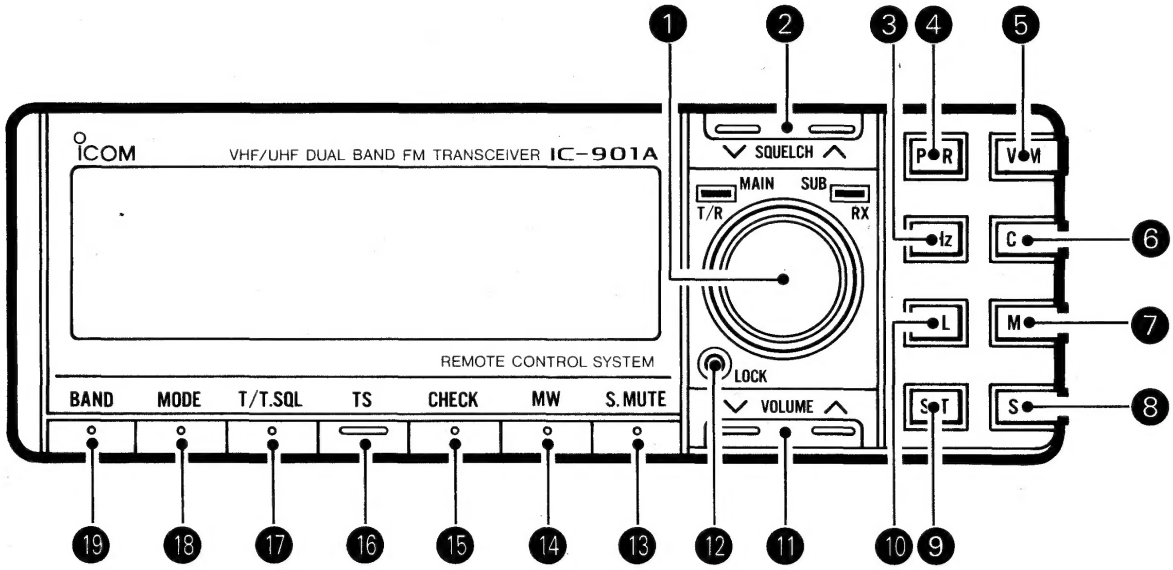
■ TRANSMITTER

- Output power : High 25W Low 5 W
- Modulation system : Balanced modulation
- Spurious emissions : Less than −60 dB
- Carrier suppression : More than 40 dB
- Unwanted sideband : More than 40 dB
- Current drain : 7.0 A at high output power (25 W)
  3.5 A at low output power (5 W)

PANEL DESCRIPTION

The following panel description is for operating in SSB or CW mode when the UX-S92A/E is connected to the IC-901A/E.

The switch functions in switches ⓯ ~ ⓲ differ while operating in FM mode. See the IC-901A/E instruction manual for detailed information. Functions in ⓯ ~ ⓲ (bold letters) are effective only for SSB and CW modes.



❶ MAIN DIAL
- Changes the operating frequency.
- Changes the memory channel.
- Changes contents of the SET mode display.

❷ SQUELCH SWITCHES
Adjust the squelch threshold level.

❸ MHz SWITCH
Selects a 1 MHz tuning step increment.

❹ POWER SWITCH
Turns the power ON and OFF.

❺ VFO/MEMORY SWITCH
Selects VFO or memory mode.

❻ CALL CHANNEL SWITCH
Selects a call channel.

❼ MAIN/SUB BAND SWITCH
Exchanges MAIN and SUB bands.

❽ SUB BAND SWITCH
Sets the transceiver for operation in the SUB band.

❾ SET SWITCH
Selects SET mode and advances the SET mode displays.
- AGC time constant can be set using SET mode.

❿ TRANSMIT POWER SWITCH
Selects high or low transmit power.
- High: 25 W PEP (No indication.)
- Low : 5 W PEP ("LOW" appears.)

⓫ VOLUME SWITCH
Adjust the audio level.

⓬ LOCK SWITCH
Deactivates the main dial and other switch functions.

⓭ SUB BAND MUTE SWITCH
Mutes the sub band audio output.

⓮ MEMORY WRITE SWITCH
- Writes a memory channel.
- Transfers the contents of memory channel to VFO.
- Programs a call channel.

⓯ RF GAIN SWITCH
Selects one of 3 RF gain levels. The greater the indication, the lower the RF gain.

⓰ TUNING STEP/RIT, VXO SWITCH
- **Selects the pre-programmed tuning step.**
- **Selects the RIT or VXO function. The desired function can be set using SET mode. Once the desired function is set, the function is turned ON and OFF with [TS].**

⓱ NOISE BLANKER SWITCH
Turns ON and OFF the noise blanker function.

⓲ MODE SWITCH
Set a desired operating mode for USB, LSB or CW.

⓳ BAND SWITCH
Selects the desired operating band when one or more optional band units are connected.

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Count on us!

A-8059S-1EX Printed in Japan